

Getting to Compliance

Washington DC Energy Conservation Code



OVERVIEW

How we adopt code

How we enforce code

How do we get to compliance?

MHO IS "WE"?

Department of Consumer and Regulatory Affairs

The mission of the Department of Consumer and Regulatory Affairs (DCRA) is to protect the health, safety, economic interests and quality of life of residents, businesses and visitors in the District of Columbia by ensuring code compliance and regulating business.

HOW DOES DC ADOPT CODE?

Construction Codes Coordinating Board

- Technical Advisory Groups
- Public Comment Period(s)
- Approval by City Council
- 2013 DC Codes adopted March 28, 2014
- 2016 cycle has begun

AND ENFORCE CODES?

Permitting and Inspections

- 2 distinct divisions
- Third Party review and inspection
- Historic, Zoning, DDOE, DDOT, WMATA,
 and federal (as applicable)
- Green Building Division

WHAT IS A GREEN DIVISION?

Green Building Division

Regulations of green codes including:

- Green Building Act
- Energy Conservation Code
- Green Construction Code

WHAT DOES THAT MEANS

Green Building Division

- Preliminary Design Reviews
- Plan Review and Permitting
- Inspections
- Certificate of Occupancy
- Enforcement

WHAT DOES THAT REALLY MEAN

... for energy <u>compliance</u>?

- ICC code development
- Research
- Develop Tools
- Education and Outreach

GREEN BLDG DIVISION

IECC Code Development

- Review, research and track each code change proposal
- Participate in and testify at Public Action Hearings
- Advise 12 voting members of DCRA and vote

GREEN BLDG DIVISION

Research

- IMT and Britt/Makela Group, Inc.
- Evaluate DC's energy code enforcement
- Determine informal compliance rate
- Test application of City Energy Project (CEP) Compliance Methodology

RESEARCH

Review Process

- 10 Commercial projects
- 3 Single Family projects
- Data collection checklist:
 - Document Review
 - Field Inspections

RESEARCH

Findings

- Buildings did not meet minimum standard
- Documentation did not show compliance
- Repeated, significant errors
 - window area
 - slab edge insulation
 - lighting controls missing or misinstalled
 - U-values

RESEARCH

Suggestions

- Program Staffing
- Documentation on the plans
- Training and Education
- Integration into all reviews and inspections

PERMITTING

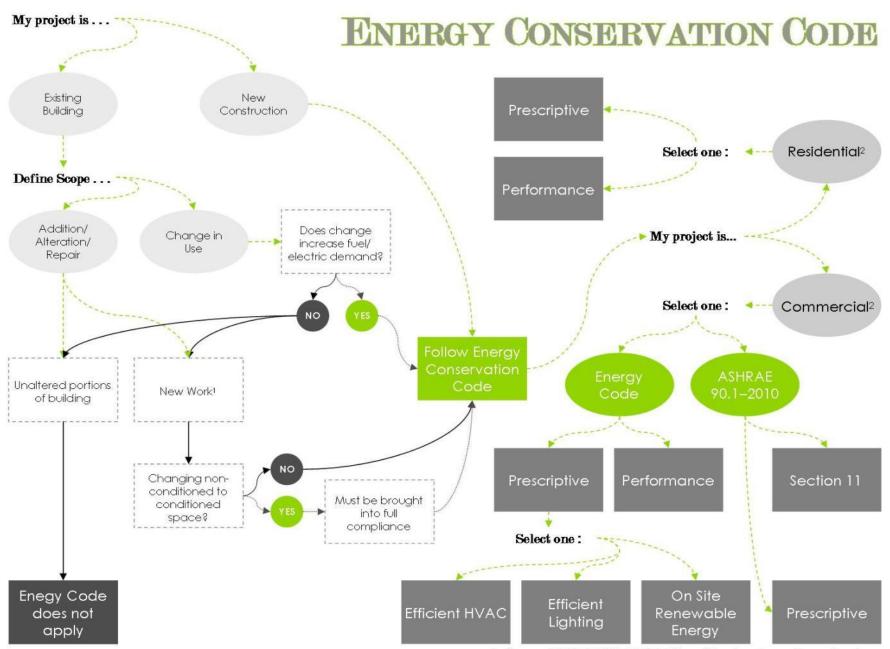
- Energy Model Inputs/ Outputs
- Load Calculations
- Code compliance reflected in drawings

TOOLS

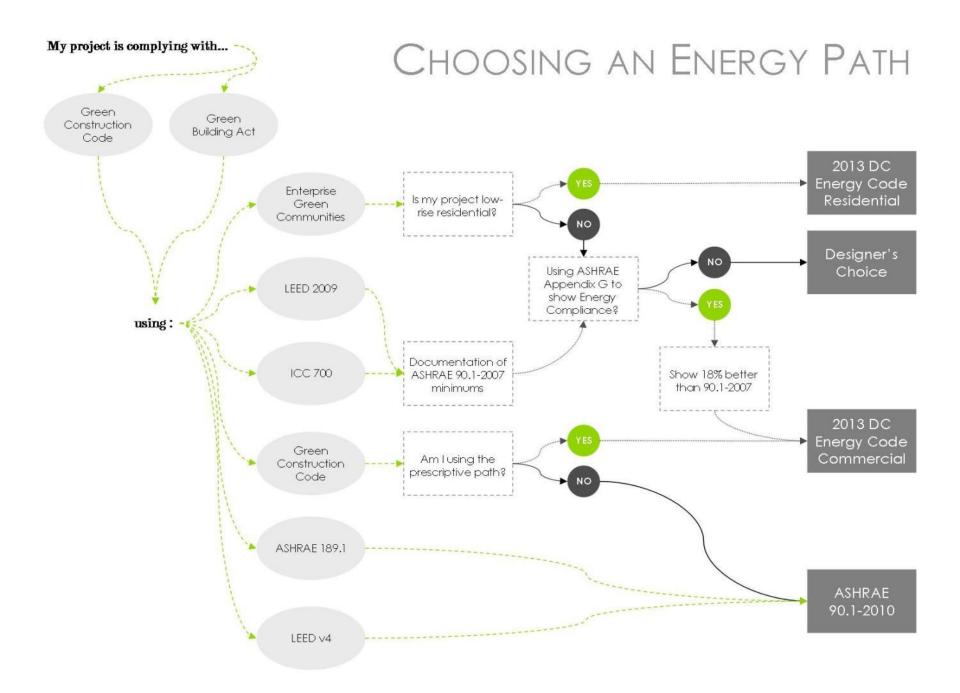
- Green Building Program Manual
- Sectional Reference Guides
- Energy Verification Sheets

GBPM + SECTIONAL REFERENCE

- Help determine applicability
- Navigate code compliance from design to occupancy
- Provide additional guidance on what should and can be submitted
- Covers Green and Energy Codes



¹ reference 12 DCMR A 101.4.7.5.3 Additions, Alterations, Renovations or Repairs. ² as defined by the Energy Conservation Code



ENERGY VERIFICATION SHEETS

- Standardizes communication
- Informs project teams of high priority measures
- Provides a faster energy review
- Improves DC energy compliance

Project Sp. Common Sp.

1013 DQ Defigy Code Dect. #	Foreign Important	Hundig Ton Code Yelon	Plan Village	Herital Day Page	Page Series	24
olesii.i	Maker Grade Sandation Well Value.	R-7/5				
EXECUTE PARTY	Pater Grote tradetter that metabas per tradetacture's tradeathers	11/4	18/04			Г
98	file olgo bodativa valor	R-15,34" IP-bested R-20,34"				Г
C303.2 MSP	tisk edge baddetes butaled per morateness battachtes	N/3	14/4			П
0403.2.T. 0408.2.E. 58	Dr. Beddie pateiter opier denge, archit, motore, sto. Imperator mateixo estato.	H/A				Г
0403.2.7 0403.2.8 MR	Pything attacks that planters the broadfast and contact when periodical in our order is disk	H/A				Г
0408.2.8 M	Rethon carties of tear stracture exits redigit housing tradition to R-25	8/A	N/A			Г
0403.Z.4 E	Press protection it specylice method sys. subsets for Make of decide to controls.	N/A	N/A			

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	Presentation products one contribut on to the porturnation labels or contribution.	N/A				
	Confirment all—borrier in symptot, segled, equival, parted, toped in appared feature. Assembles bleef Acres 8 2007, ACRE E 1877, or ACRE E 280	N/A	N/A			
8	il-tector of gauge dury associated with the salaring flowed environments requirements.	Swingley (F-0.0) Not-change N-1.35				
0300.1.5 S	Fenetration products rated in accordance with EPRC.	N/A				
0402.4.2 0402.4.4	Pestrop-traffic formation & direct go lebeled on preeding draffic formation.	N/A	H/A			
5	Vestinder are testalled where halfing entrances expansive confidenced opinion from the annual strategy experiences. Describing experiences is described on a first design defines in the first part.	1/4	14/4			
0400.42 5402.44	Varied Pressbutter, II-lanks Final Presettation Quarkle Formitation Elevants show	日報				
00E3	Stylight Proventions U-factor	U-0.80				
C\$102.3	Stylight Parasterion SHCO	940-640				Г
6419.3 8	Various Parasheston SHCC volum	SH60-0.40				

You's Mandatory for all Compliance Approaches as Releast to the Scope of Work Mandatory for Prescribble Polt

HS DC ergy Gods	Plending Rough-In Properties	Prompos Only Value	Video/	Section Section Sep Page	Page	D#
MC MC	Arterette or period outstand freshilled to outstan off the restrictating had under system or hard frees.	N/A				
443 H	Temp. merinde brakelted on merine replet brakelte systems (£210 F to even, large, (£894)	H/A				
MO-LO	Respondering engine had writer primer handwided. Under white parties and states with parties of states the parties of the states Resembles to the states.	1" ins. de 3.27 conductivity				
1964 M	Heat Super betaled at non-choulding stroops when Sprin.	11/4			1	

Breegy Code	Medicated Hough-In Imperior	Franchiston Sade Vales	Valet/	tyrome.	Heatified Day Figure	Han Review	Redd lesp.
m4	exchanted fough-in imposition Committee carried verificities produce the option 2000 the or 200 ps/1000 the occupies deathly in served by systems with air airs in committee, with produced the committee of producing of the part of the > 2,000 CMI	N/A					
0400.2.3(2)	PTOC and PTEP with planters 10" by 42" likeled for replanament salp.	H/A.					
0402.461	Note and electric shaft variety have materiald dampers that extensionly does.	N/A					
G402.48.2	Outdoor de and extensis quique have protected despare that accountedly slot slots took to de tried the manteue belongs takes. Quel grafty degrees view direct.	H/A					
C403.2.3	MINE septement regulated by Perform Notional Application Diverse Conservation Aut transfer regulationality.	See Code Wiles					
0403.210	Each HAM system with both fan makes 2000 days not exceed the allowable for system records retrospects for of the filte system below horse posses.	H/A					
0453.3.8.1 M	bendette expessed to meabler in particular from demage. Innights outside of the caraltitud space it desce. with cooling systems to repor- relegation.	N/A					
0458.2.7 M	FIRST share and pleasure brighted pay appear requirements.	Dresond. space Rink, details sudding Rink					
	PACE COMPANY INVESTOR OF THE CONTRACT						
0403.2.8 M	Topically treflective panel of them of country broken visit panels have treated in visit	9-3.5					
0403.2.7 M	hats and Flores social blood on static process.	H/A					
0400.0.71.3	Declary's operating > 3 in. w.g. requires of licitage looking.	H/A					
0405.2.6 WT	Colored at energy recovery Colored president Table	H/A					
PIS	All modulations provided others required, most the property for design expects, marked state, and tight-first sections of the control of the	B/04					
0400.3.1.1.3	stone profile to release stone of the district	H/A					
0485.3.1 MR	Wither companions provided whate registres, from the registerants for design company, provings, grossys- dry and bringsys- al and an experience of the and contact the collect and beating system impact.	4/4					
0102414 MR	Demonster operation will not berneus bearing everys and design served operation.	8/A					
0403.41.4 MR	Zero costedu cer brit struttereck teating is suring and separate harring is cooking to expl sepa.	8/4					
0465.4.2 MP	NAV to meeters 7.5 EP to be drive by writin speed drive, here very noted to orb verying pints blokes, or less controls to bert to make demand.	4/4					
0403.23 W	Hydratic text party systems connected to a common order less most best rejection and here statems inhibitionally.	8/A					
048545	behave the control of	1/4					
0493.3.1	These economies specified on hydroxic coaling & handdroxics systems designed to resittate leads humiday at 200 F despose on an accommiss is regular.	N/A					

Design Code		Prosuptive Code Video	Wate/ Droden	Spanner	Designer Mark Page Tree Page	Der des	7
0403.4.4 MR	Each for powered mater >-13 HP, has equally to scheduling quests at \$ requesty for sharped temp.	8/A				Г	
0405-4.7 MR	Not ger types systems before to: acres sinch - non sinc sinch - non	14/4					
C403.4.2.1	VW tre has cost process whete perfected to expets or 1/5 and deep presers.	M/A					
0400.4122	teset abote preserve extended by DDC controlled WAY brown operation to control controller bland of the same regarding the count pressure.	N/A					
0463422 M	orb 1000 of rebaled new buses been eliftle placed a subject reset controls.	н,л.					
C000.4.5	indigile som HNC systems have supply at temperature reset controls.	14/4					
C405.4.5.2	Hydronia, two pipe hanting god cording nation offer its day F embrish those, and 4 hash shakeded informat hanting and cooling.	N/A					
0485434	Tribbetable tood by representative balding tools in hydronic childre and below systems in 200,000 Bbs/s.	1/4					
	Temposition extensite valua printed de start off uniter flor viles labratis loca peng- eth pumping system > 10 to still.	на					
0102.43.31	Number and purpose and have a water deed bond of 20 day. I' between long rejection and hear ediffice.	*,*					
040.43. 321 W	Hydroni heat purp, jest rejectio systems shall be able to topide couldn't feed or stop heat exchange.	*/*					
0402.4.54	Helperty graduate a realized and the death of the control of control of the control of the by the death of the control						
0403.4.3.5 M	Rysbords Floring technique for equilibries of Text of Feeder children shall be bedushed.	H/A					
0400.4 <i>e</i>	Continuer hast recovery seating that our head outer to the state of the seat out of peak total of peak hast rejection to the seat hast rejection to the seat hast rejection to the seat of	H/A					
C003.2.11	Unandood space that are tested use only reduce book	H/A					
0404.8	Service water hearting equipment treats officially represents.	N/A					

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0400.3.1.1 Ex	estatethe history matted to out off an project dyntary by a disc of day metadat, an ecopyant supery, or bran- mether control dams system.	H,/A				
0405.2.1.1 EX	independent lighting control ready accessible and visible to congregate.	N/A				
0408.21.2 IR	independent lighting control true of large figure ringer GF, Ch. and one stop o-door lighting power.	\$				
D105.3.2.3	As nonperty sense or first attended to the or first and first and first attended to the original and the ori	но				
0408.23.1 Di	For opening not included in COCCLAIA, contrast should shall be extended for instituting of the discontrast errors. Observing any orbidised shall off compay to discont for reastment of 2 bodies.	н,ль				
	deplift norm have deplifting controls bylening sorwide.	H/A				
0406.2.2.3	Chairmed groups upday studying are equipped with required highest character expensive from passed byteless (15 ft. from subjects).	1/4				
6485.8.4	Antonietic Biglibes controls for experie Biglibes Bedalest to project.	H/A				
C408.4 BR	Det signs do not exceed 5 water per face.	Water/Tere				
0405.3 ER	Terden viging in progred for research flatmoord large with 10 feet of the distinct AD for personnel lights progred flatmoord lights progred it that edge to edge of the distinct.	N/A				
C408.6.2	ms. Spring Story position See bu/W values on rection spring?	14/4				
0405.5.3 ER	Uplifting Forms' Country to collectional by Statisting Area strated or Spaces for Spaces sertical. Collections provided to plane.	14,04				
CHOS.I.J DR	thoughly make have at least one reactor sorbit at the room entry door that carbries the wind lamberton and cottaked recognitions.	жа				
0403.23 ER	Supports (Spitting matter) decision for operation mass probability over operated highling plane.	H,04				

Service Great Service Great Sect.	Institute Imputtor	Franchiste Code Video	Man Valen/	Contiduo Maria Paga Cong Paga	Plan. Parties	랟
98	All ocution of of lestings in the hability discount orentage are singled, explined, populated or wanter stiftgard to mistrice of lestings.	H/A				
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84 C00075	Roof besidete tretded per prostretore's instructions. Here, or paged lease 48 besidete tretded only share the roof depo 3= 3/42	*/*				
0408.2.1 88	Suplish make beautiful to the load of ports with treatmen above deck of R-S.	8/9			П	
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C402.1.1	Above Grade and Frankrike. Residen. Nietz 166: Sted Barell. Sted Barell.	Eliab.				
CSOLE MSP	Acon Dear of Buarton builded per provincer's represents.	N/A	-			
0409:1J 98	Bor budtte 8-ele. Histor Dud-jake Nord-typed	8-10 cl				
0303.2 NSP	Rost budette tutalisi per preparationarch registerests.	H/A	8/4			
0303.1.2 R2P	they severe them to smoot u/ 8-vel or head, contribute.	N/A	H/A			
C300.2.1	Experie habitto is protected your demage with protection motivated	N/A				
C\$12.3.1	Testing food Broadfan optics to behalted on top of a represent selling.	H/A				

Colon Colo	Del3 DE Dergy Code Sec.	Tred becertie	Processing the Code Notice	Pint Water Strategy	Configuration of Congress Pulgar	Page Rendere	100
Partners Partners Partners Partners	0402.44	Verferede betaled er all laufer deck oarge deze in Calento Zabon 4–0					
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CHICAGO Control of the Control o	0403.2.4	Depresently copyed hope a 5 degree death and	H/A				
GARDALE Anthrop Gardan	14	Temperature controls have suspent owners provided.	H/A				
GARDALE Anthrop Gardan	0405.2.4.5 M	Sect time appropri with softeen collects duling sectorarie time dust or programmable control system.	14/4				
0500.00 Surprise products represent 1/A	0402.24.3 M	Agin. Ográfuje: Selpest to 65 day F (hose) and 55 day F (self): F day 2 boar sociajant sourch, 10-tour parties.	H/A				
1910.0.1.0		Matters of one bandity colfred device per furtilles delenishterion/ nantationise system	H/A				
Col.	•		N/A				
Col.	0408.247.V	Book purity controls prevent supplemental alant, resistance lent, from coming or whose but freeded.	1/4				
COLUMN TO A THE PARTY OF THE PA	E-E032	I'm) optom od opjonet opacj doe lot ocean materialism.	H/A				
Col.	04043 _M	Provide Identity Hagnet Supportation of the dep. E.	Deg P				
Col.		Artemets or purpose expenses on metalled for first for question of transmitting contact makes to final type to be descript from	H/A				
Application The contribution	0404.7±	Peol beginn an epigend with ca/off paths and an continuous burning side light.	N/A				
Application The contribution	0404.7.3 N	First covers that are repor- reheadert are probled for heated pade.	Vapor Patricipant				
Sendad Impro of Albard the indicated and white a the indicated and white		Artistick thre existes str medical on all pool beaters and number.	N/A				
ex constraint with start is the property of the start is the start of the		Recommend Services to Service and Services and Services Services and Services and Services Se	1/4				
		drawn on the approved lighting prigns, which descentings proposed with the last that of expel to allowed worth.	N/A	N/A			
10.4.3 Benting are designed with prior below, violatine N/A			N/A	N/A			
		Bearing me designed with proper highway, retriaring power, and stoudy made.	16/04				

DCRA Energy Verification Sheet

2013 DC Energy Code Non-Residential

Version 1.0_2014

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Permit #:	Address:					
Compliance	Path Used: 🗆 Prescriptive	□ Trade Off		□ Perform	nance	
Project Type	e: New Non-Residential Project	□ Non-	Residential	Addition 🗆	Renovation	on
2013 DC Energy Code Sect. #	Pre—Inspection Section Description	Prescriptive Code Value	Plan Value	Designer Identified Dwg Page	Plan Review	Field Insp.
101.4.7.6, C402.4.1.2 SR	Plans, specifications, and calculations give info for air—barrier energy compliance. Assembles meet ASTM E 2357, ASTM E 1667, other. Materials require sealed joints	N/A				
C403.2.1 SR	Provide Sum of All Exterior Wall Area in Square Feet	N/A				
C403.2.1 SR	Provide Sum of All Exterior Window Area in Square Feet	N/A				
C403.2.1 SR	Calculate Window to Wall Area (WWA) based on values above.	N/A				
C403.2.1 SR	If WWA≥ 30%, then prescriptive path cannot be used, unless exemption and calculations.	N/A				
C402.3.2	In enclosed spaces > 10,000 ft2 directly under a roof with ceiling heights >15 ft. and typical daytime occupancies (See Code), the following requirements apply: (a) the min. daylight zone under skylights is >= half the floor	N/A				

2013 DC

Energy (Sect. #

C404.6

C404.3

C404.5

C404.4

2013 DO Energy Sect. #

C403.2

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PERMITTING + INSPECTION

RE: Integrating Review & Inspection

- Energy Verification Sheet
- Inspection Checklists

				<u> </u>		
2013 DC Energy Code Sect. #	Foundation Inspections	Prescriptive Code Value	Plan Value	Identified Dwg Page	Plan Review	Field Insp.
C402.1.1 SR	Below Grade Insulation Wall Value.	R-7.5				
C303.2 INSP	Below Grade Insulation Wall Installed per manufacturer's instructions	N/A	N/A			
C402.1.1 SR	Slab edge insulation value	Heated: R-15,24" Unheated: R-20,24"				
C303.2 INSP	Slab edge Insulation Installed per manufacturer instructions	N/A	N/A			
C403.2.7, C408.2.8, SR	Ext. Insulation protected against damage, sunlight, moisture, wind, landscaping maintenance activities.	N/A				
C403.2.7 C403.2.0 MR	Piping, ducts and plenum are insulated and sealed when installed in or under a slab	N/A				
C402.2.8 M	Bottom surface of floor structures using radiant heating insulated to R-3.5	N/A	N/A			
C403.2.4 E	Freeze protection & snow/ice melting sys. sensors for future connection to controls.	N/A	N/A			
2013 DC Energy Code Sect. #	Framing/ Rough-In Inspection	Prescriptive Code Value	Plan Value/ Strategy	ldentified Dwg Page	Plan Review	Field Insp.
C303.1.3	Fenetration products are	N/A				

C403.3.

C403.2

C403.2

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NI /A

C403.2

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C403.3.

C403.3.

C403.2

C403.2

C403.2

C403.2

C403.2.

C403.2

C403.3.

EDUCATION + OUTREACH

RE: Training and Education

- IECC Model Code
- DC Compliance Paths
- Energy Verification Sheets
- External Sessions

QUESTIONS?

Kimberly Newcomer

Green Program Analyst

kimberly.newcomer@dc.gov

http://dcra.dc.gov/page/green-building-program

http://buildgreenDC.org

green.building@dc.gov